NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international proliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policiation. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Proliminary Examining Authority. The description and drawings may only be smended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Whon?

Within 2 months from the date of transmittel of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time timit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to flie the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published,

What documents must/may accompany the amendments?

Letter (Section 206(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning asveral claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amondments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11): "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of smendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rute 45.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filled and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disperaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been automitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220						
PR60351WO	ACTION as	well as, where applicable, Item 5 below.						
International application No.	International filing date (day/month/year	(Earliest) Priority Date (day/month/year)						
PCT/US2004/024308	27/07/2004	28/07/2003						
Applicant	27/07/2004	20/07/2003						
- Applicant								
SMITHKLINE BEECHAM CORPORA	ATTON							
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.								
This International Search Report consists	of a total of 7 sheets							
l —	a copy of each prior art document cited in	this report.						
Basis of the report								
a. With regard to the language, the language in which it was filed, uni	international search was carried out on the ess otherwise indicated under this Item.	e basis of the International application in the						
The international this Authority (Ru	search was carried out on the basis of a tree 23.1(b)).	anslation of the international application furnished to						
b. With regard to any nucleo								
2. Certain claims were four	2. Certain claims were found unsearchable (See Box II).							
3. Unity of invention is lack	king (see Box III).							
4. With regard to the title,								
the text is approved as su	bmitted by the applicant							
1 📻 .	hed by this Authority to read as follows:							
CYCLOALKYLIDENE COMPOU	NDS AS MODULATORS OF ESTI	ROGEN RECEPTOR						
		•						
5. With regard to the abstract,								
the text is approved as sul								
the text has been establish may, within one month from	ned, according to Rule 38.2(b), by this Aut π the date of mailing of this international π	thority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.						
6. With regard to the drawings,	:							
_	ublished with the abstract is Figure No							
_	as suggested by the applicant.							
as selected by this	Authority, because the applicant failed to	suggest a figure.						
	Authority, because this figure better char	acterizes the invention.						
b. none of the figures is to be	published with the abstract.							

Form PCT/ISA/210 (first sheet) (January 2004)

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to novel compounds with a variety of therapeutic uses, more particularly novel substituted cyclic alkylidene compounds that are particularly useful for selective estrogen receptor modulation.

$$(R^4)_{\rho} \xrightarrow{R^5} R^6$$

$$(R^2)_{q} \xrightarrow{R^5} R^6$$

$$R^7$$

$$R^1 \xrightarrow{R^6} R^7$$

5 including salts, solvates, and pharmacologically functional derivatives thereof wherein

R1 is OH;

each of R² and R⁴ independently are selected from OH, alkyl, or halogen; each of p and q independently are selected from 0, 1, or 2;

10 R³ is -(Y)_z-R⁶;

z is 0 or 1;

Y is -C=C- or -CR°=CR'-;.

X is $-(CH_2)_{n}$ where n is 0, 1, 2, or 3, $-C(R^0)_{Z^n}$, -O-, or -S-:

Form PCT/ISA/210 (continuation of first sheet (3)) (January 2004)

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07C59/72 C07C235/34 CO7D335/02 C07D211/60 C07D207/333 C07D309/22 C07C233/25 C07C43/295 C07F9/142 C07C317/22 A61K31/192 A61K31/382 A61K31/44 A61K31/165 A61K31/40 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C C07D C07F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search torms used) EPO-Internal, CHEM ABS Data, BEILSTEIN Data, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category • Citation of document, with indication. where appropriate, of the relevant passages Relevant to claim No. X MUTHYALA ET AL .: "Bridged Bicyclic Cores 1-24. Containing a 1,1-Diarylene Motif Are 28-38 High-Affinity Subtype-Selective Ligands for the Estrogen Receptor" J MED CHEM, vol. 46, 4 February 2003 (2003-02-04), pages 1589-1602, XP002313260 see table 1 esp. compound 9 Further documents are listed in the continuation of box C. X Patent family members are listed in annox. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the air which is not considered to be of particular relevance earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means nts, such combination being obvious to a person skilled document published prior to the International filing date but later than the priority date claimed in the art. *&* document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 13 January 2005 27/01/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340 2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016 Goetz, G

C.(Continu	otion) DOCUMENTS CONSIDERED TO BE RELEVANY	
Category •	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; GILBERT, JACQUES ET AL: "Inhibition of prostaglandin synthetase by di- and triphenylethylene derivatives: a structure-activity study" XP002313261 retrieved from STN Database accession no. 98:154902 see RN 84836-29-3 abstract & JOURNAL OF MEDICINAL CHEMISTRY, 26(5), 693-9 CODEN: JMCMAR; ISSN: 0022-2623, 1983,	1-24, 28-32
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; JENDRALLA, H. ET AL: "Synthesis and biological activity of new HMG-CoA reductase inhibitors. 3. Lactones of 6-phenoxy-3,5-dihydroxyhexanoic acids" XP002313262 retrieved from STN Database accession no. 115:183017 see RN 136007-91-5 abstract & JOURNAL OF MEDICINAL CHEMISTRY, 34(10), 2962-83 CODEN: JMCMAR; ISSN: 0022-2623, 1991,	1-24, 28-32
X	US 3 287 397 A (ALFRED WAHLSTAM HANS ERIK ET AL) 22 November 1966 (1966-11-22) examples 3,9,12	1-24, 28-32

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 36 to 38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

Claims Nos.: 27

see Rule 6.2 a)

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.I(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

__mational application No. PCT/US2004/024308

INTERNATIONAL SEARCH REPORT

Oox II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. X Claims Nos.: 27 because they relate to subject matter not required to be searched by this Authority, namely:						
Although claims 36 to 38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.						
2. Claims Nos.: 27 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:						
see FURTHER INFORMATION sheet PCT/ISA/210						
3. Claims Nos.:						
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).						
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:						
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.						
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:						
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
:						
Remark on Protest The additional search fees were accompanied by the applicant's protest.						
No protest accompanied the payment of additional search fees.						

•	Information on patent family members		mbers	PCT/US2004/024308	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 3287397	A	22-11-1966	GB	971908 A	07-10-1964
			CH	470331 A	31-03-1969
			CH	466266 A	15-12-1968
			DK	125082 B	27-12-1972
			FΙ	40164 B	31-07-1968
			SE	307784 B	20-01-1969

Form PCTASA/210 (nation transfer annies) (familia) (MVI2)